# **EXHIBIT 80**

# Redacted Version of Document Sought to be Sealed

# The Incognito Problem

Chris Palmer (palmer@)

# Key Fact: Incognito Confuses People

### "Incognito" Confuses People

We know from intuition, anecdotes, and now empirically (Yuxi Wu, et al.; see also Habib, et al.) that the "incognito"/Spy Guy branding, and the complex disclosures (like all complex disclosures), confuse people as to what exact guarantees it offers and does not offer.

Ironically, across all browsers, Chrome's disclosures were the least confusing by a modest amount. But it's still bad.

ld	Date	Text
1	07/22/2018 07:53:36	It'd be good to try to replicate or further validate the study, but I'd be surprised if we got a significantly different result.

WWW 2018, April 23-27, 2018, Lyon, France

Yuxi Wu, Panya Gupta, Miranda Wei, Yasemin Acar<sup>†</sup>, Sascha Fahl<sup>†</sup>, Blase Ur

Table 5: Scenarios where participants held misconceptions, shown with the correct answers and percentage of participants who gave incorrect answers. For comparative scenarios, (in)equality symbols denote the correct answer, and we give the sum of all participants answering otherwise.

		Answer		% Incorrect	
Scenario	Std.	Priv.	Std.	Priv	
Overestimating private mode's	privacy	protecti	ons		
Search queries associated (logged in)	Yes	Yes	1.5	56.3	
Bookmarks saved across sessions	Yes	Yes	25.4	46.5	
Geolocation can be estimated	Yes	Yes	5.2	40.2	
Employer can track browsing	Yes	Yes	1.1	37.0	
Better protected from viruses/malware	Std.	= Priv.	2	7.1	
IP address can be collected	Yes	Yes	0.7	25.2	
Government can track browsing	Yes	Yes	4.1	22.6	
ISP can track browsing	Yes	Yes	3.0	22.0	

Table 6: Distinguishing scenarios where private mode's impact depends on the browser or context.

Scenario		% Yes	
		Priv	
Items in shopping cart saved across sessions	97.8	78.8	
Browser extensions active across sessions	98.3	69.1	
Forensic expert can reconstruct browsing history	98.7	52.8	
Site-specific preferences (e.g., for pop-ups) saved	98.3	31.3	

Table 7: Distribution of responses for comparative scenarios where the impact depends on the browser or context.

	1	% Responses		
Scenario	Std. > Priv.	Std. = Priv.	Std. < Priv.	
Amount of ads	32.2	64.9	2.9	
Page loading speed	24.8	53.6	21.6	

 $(\chi^2(12)=38.1,p=.001)$ . In the control condition, 32.4% of participants mistakenly believed downloaded files would still be listed in the browser. A higher proportion of participants in Brave (62.2%,

<sup>\*</sup>Except in Brave's private mode, which does retain download history

## This Is Bad

We are over-promising and under-delivering.

This is bad for people and reflects badly on our product when/if people do come to understand.

Key Question: What Do People Use Incognito For?

## Why Do People Use Private Modes?

#### From Wu, et al.:

- 1. Hide browsing history, especially visits to adult websites;
- 2. prevent targeted ads and search suggestions;
- 3. achieve "safer" browsing;
- 4. Prevent browsers from saving login-related information;
- 5. avoid cookies;
- 6. accommodate intentional or unintentional use by others.

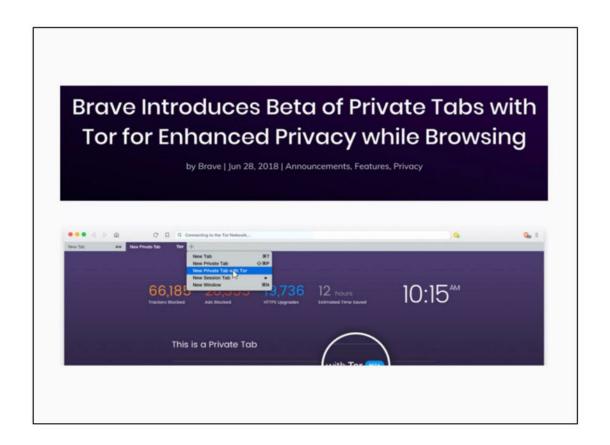
ld	Date	Text
1	07/23/2018 13:28:04	what's the motivation here? how does this differ from 2?
2	07/23/2018 13:28:04	This is a list of reasons that people reported to the researchers for why they use private browsing modes. Part of the point of the research is that people don't fully understand the mechanisms.

## Incognito Is Overloaded

Those 6 reasons are related but different. Perhaps we really need multiple modes (we've already got Guest mode)?

Or more and easier affordances for privacy and control in Settings/elsewhere?

# Key Fact: There's A Privacy Feature Race



#### tom's HARDWARE

PRODUCT REVIEWS BUYING GUIDES HOW TO DEALS NET

#### A Firefox Competitive Advantage

The Tor Project developers said that Project Fusion has the accord of Mozilla's CEO and CTO, which probably means it has a high chance of coming to fruition. However, many issues have to be considered first, such as developing private telemetry, fixing the problem with fingerprinting resistance breaking websites, and so on.

Additionally, Mozilla wants to first standardize the Tor client specification, write conformance tests for it, and open the documentation. All of that means that more people could look at how Tor is implemented in Firefox and see if there are any issues with that implementation.

The main reason why Mozilla would even want to integrate Tor into Firefox is because it could provide its users real private browsing, something that most competitors will not be able to offer. Mozilla has taken an increasingly strong pro-privacy stance in the past few years, and Project Fusion could further boost its pro-privacy image.

It could also put Firefox in a much more direct contrast with Chrome, a browser developed by Google, which is heavily invested in user tracking in order to serve more targeted ads.

### ITP, ITP2, ITP3

Safari and Mozilla are moving in this area, and we'll need to have some kind of response as well.



ld	Date	Text
1	07/21/2018 14:10:10	Tor is also a secondal of illegal and distactoful content.



Options

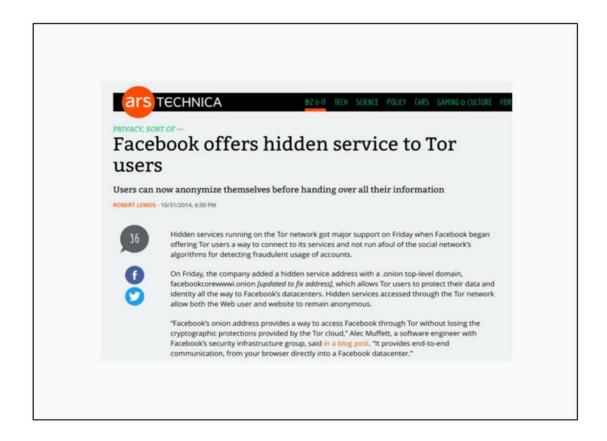


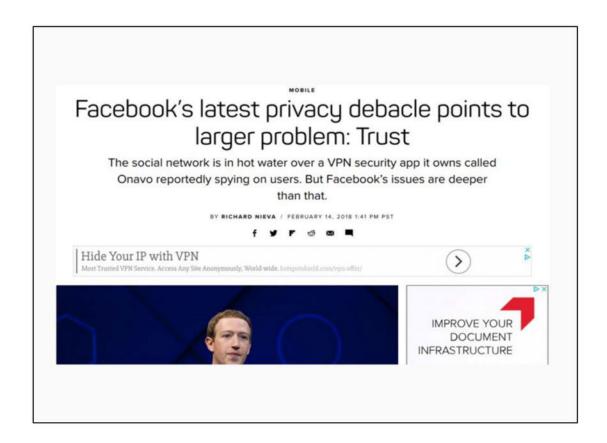


ld	Date	Text
1	07/23/2018 14:04:19	Another entire is competing aking to DUMD to provent financiating.
1	07/23/2018 14:05:29	Coopie swild provide a SOCKS prove for UTTOS connections. This would be much factor reuting through Tor and in protice provide just as much pagnish (if you trust Coopie).
2	07/23/2018 14:05:29	If we're exist to set the enter and suit TOD nedec as Cocole according, we might so well just do SOCKS incload answer.







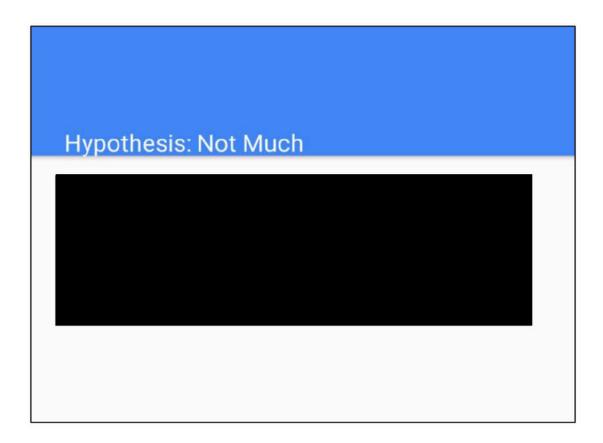




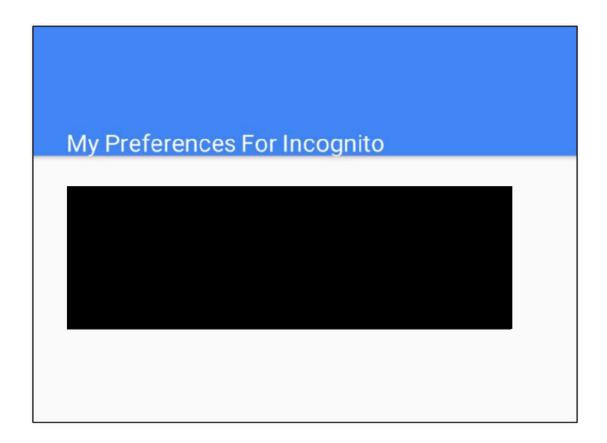
source: https://gist.github.com/kennwhite/1f3bc4d889b02b35d8aa



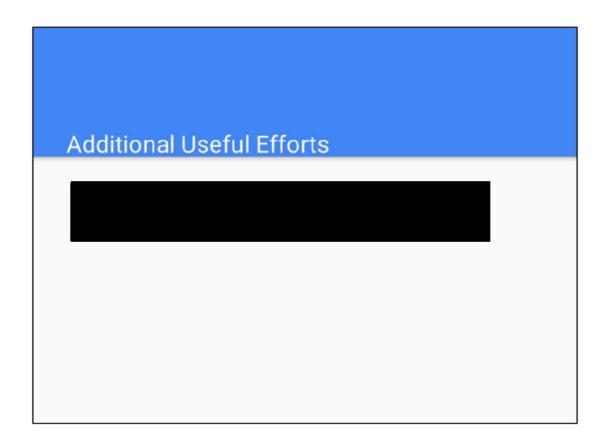
Key Question: How Much Breakage Will People Tolerate?



# Conclusion: Options, But No Single Clear Path



ld	Date	Text
1	07/21/2018 15:50:53	note that there's some talk to add a Cooole VON to Android is the score of Namis 2
3	07/22/2018 08:00:43	Alor: Note that the proposing wold are a Tor "enclose" to set of Tor out soutces that are decised to be are in the same entite that out tenth to Cocole seniors. Tor closes would excler them when entities to Cocole. We would therefore avoid the cocc where our sedes out to any auchors for indeed any other seniors of all.
		This is what Cacabaak doos (is addition to supring Cacabaak as a Tar Hidden Canica).
2	07/23/2018 12:54:42	I'd profer is see us our all allementure polywork to Ter where content can poly enter the naturally when persons from a well intentional, beauty multiplies course. Then we pould have a lateral account of published centest that could hath allow much areater account as well as he as account to consecrating its cisnificant number of Chrome instances participated to create the accountation properties.
3	07/23/2018 12:54:42	Yes, I do not that, but we're still feeding the network.
		Mibile I at some theoretical level support the idea of a fully appropriate sobverte, and even considered a Ter sede at home when I was first learning about Ter years and, ence I found out what content and behaviour I was enabling it ween't eight for me.
		Copole can of course take a poutral stance on this. Ed profer to use our position to bring compelling heller to be useful that combines accountly for users with accountability for publishers. Ed profer colutions that don't man un a sustain that is used for both accountability for publishers. Ed profer colutions that don't man un a sustain that is used for both accountability for man any acid of the population of the population of professions.



PRODBEG: GOOG-BRWN-00140297 PRODBEGATT: PRODEND: GOOG-BRWN-00140329 PRODENDATT: PRODVOL: PROD023 2nd\_CROSS\_BEGBATES: 2nd CROSS ENDBATES: AllCustodians: AbdelKarim Mardini; Alexei Svitkine; Helen Harris FROM: CC: BCC: CONFIDENTIALITY: Confidential CROSS ALLCUSTODIANS: AbdelKarim Mardini; Alexei Svitkine; Helen Harris CROSS ATTACHMENTNAME: CROSS BEGATTACH: CROSS BEGBATES: GOOG-CABR-00094818 CROSS CC: CROSS\_CONFIDENTIALITY: CONFIDENTIAL CROSS\_CUSTODIAN: Alexei Svitkine CROSS\_DATECREATED: 07/21/2018 CROSS DATEMOD: 10/09/2019 CROSS DATERECEIVED: CROSS DATESENT: CROSS DE-DUPED CUSTODIANS: AbdelKarim Mardini; Alexei Svitkine; Helen Harris CROSS ENDATTACH: CROSS\_ENDBATES: GOOG-CABR-00094850 CROSS FILEEXTENSION: pptx CROSS\_FILENAME: The Incognito Problem\_1TNOMivlbk0cAiQqY4twyccyjRYGHydry4vVWjt1h0t4.pptx CROSS FROM: CROSS MD5 HASH: D073B8D9E8F4A04FB597F6D6AD115E38 CROSS\_MESSAGE ID: CROSS OWNER: palmer@google.com CROSS PRODVAL: CROSS-PROD002 CROSS\_REDACTED: N CROSS SUBJECT: CROSS TITLE: The Incognito Problem CROSS\_TO: CUSTODIAN/SOURCE: Alexei Svitkine DATECREATED: 07/21/2018 DATELASTMOD: 10/09/2019 DATERCVD: DATESENT: DeDupedCustodians: DOCEXT: FILENAME: The Incognito Problem 1TNOMivlbk0cAiQqY4twyccyjRYGHydry4vVWjt1h0t4.ppt-ILS ProdDate: 06/18/2021 CROSS ILS ProdDate: 09/01/2021 MD5 HASH: D073B8D9E8F4A04FB597F6D6AD115E38 MessageID: NATIVEFILE:

Owner: palmer@google.com

PAGES:

REDACTED: N SUBJECT: